

# miniBox-F1

# Embedded Box PC

**COMING SOON**



### Features

- Intel® processor, N Series (formerly Alder Lake-N)
- Ultra compact and fanless design
- Support 1x DDR4 SO-DIMM socket, up to 16GB
- Support multiple Display out: 2x HDMI, 1x Type C
- Hi speed connectivity with 2x 2.5GbE Ethernet
- Onboard TPM 2.0 support
- 1x M.2 M Key for NVMe SSD storage and 1x M.2 E Key 2230 for Wi-Fi module
- Rich USB ports for variety application.
- Power Supply via USB-C PD with 20V/3A

**Information Display System**



**Intelligent Signage**



**Self-Check Kiosk**



**Self-Ordering Kiosk**



### Introduction

miniBox-F1 is a compact and versatile mini-PC designed to deliver exceptional performance across a variety of applications. Powered by the energy-efficient Intel® N97 (12W) and i3-N305 (15W) processors, it provides the perfect balance of power and efficiency for industrial, commercial, and consumer needs.

Featuring support for up to 16GB DDR4 SO-DIMM memory and M.2 Key M 2260 NVMe SSDs, miniBox-F1 ensures lightning-fast data access and smooth multitasking. Its connectivity options are unmatched, with dual 2.5GbE LAN ports powered by Intel i226 controllers, USB 3.0 and 2.0 interfaces, and dual display support via 2xHDMI and 1x USB Type-C with Alt Mode, making it ideal for edge computing, retail systems, and multimedia applications.

The inclusion of an M.2 Key E 2230 slot for WLAN modules enhances its flexibility for wireless communications, while TPM 2.0 ensures secure operation in critical environments. Additionally, its compact size and robust design make it perfect for use in industrial automation, healthcare, and smart office solutions.

From edge AI systems to point-of-sale terminals and digital signage, miniBox-F1 adapts effortlessly to the demands of modern industries, providing reliability, scalability, and advanced features in a sleek, space-saving form factor.

### Specification

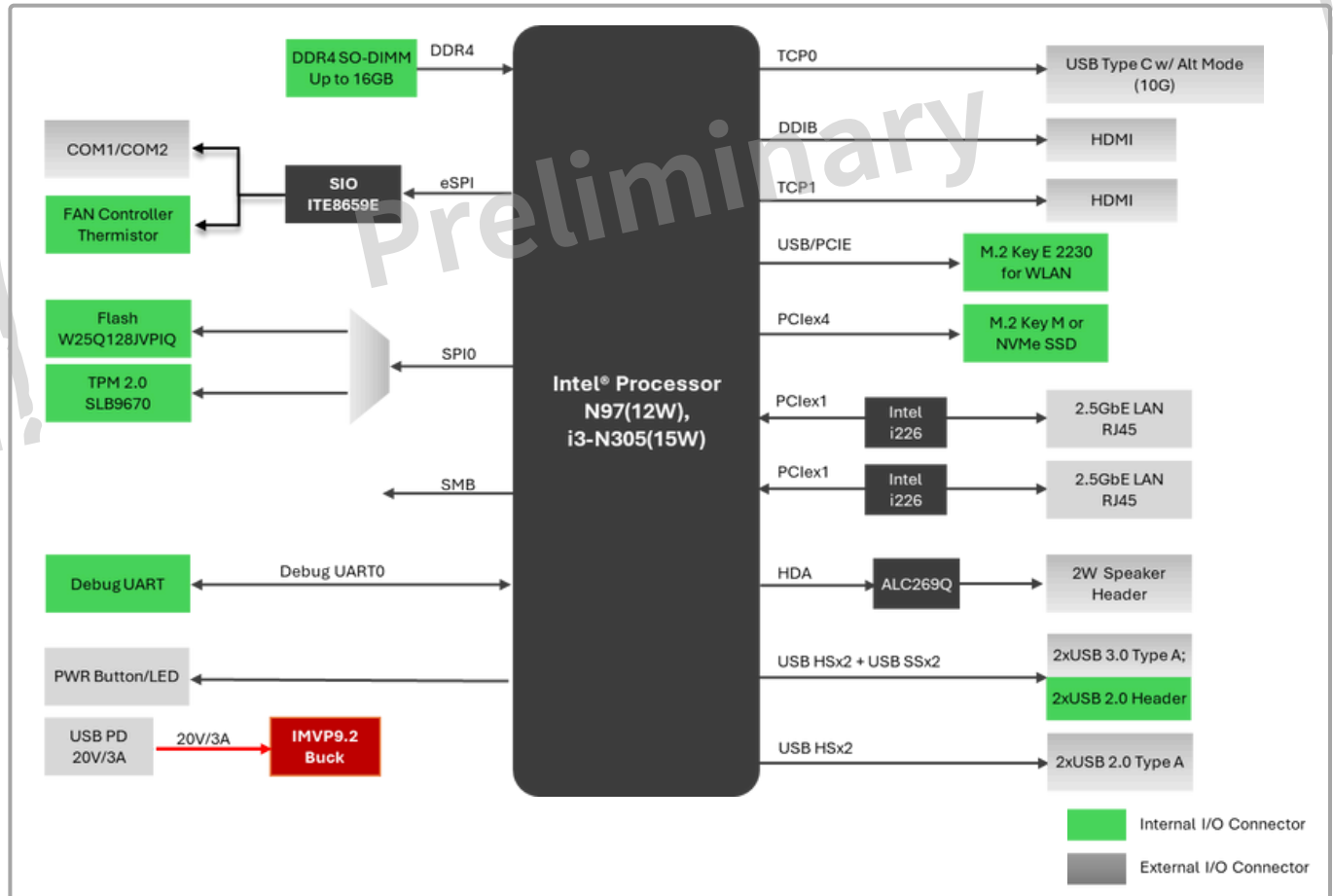
<b>System</b>	Processor	Intel® Processor N97, 12W, up to 3.6GHz Intel® Processor i3-N305, 15W, up to 3.8GHz
	RAM	1x 260-pin SO-DIMM Socket for DDR4, up to 16GB
	Storage	1x M.2 M Key 2260 for NVMe SSD
	Graphics	Intel® UHD Graphics
	Display	2x HDMI, 4K@30Hz; 1x USB Type C w/ Alt Mode, 1920x1080@60Hz
	Ethernet	2.5GbE LAN



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## Block Diagram



## Specification

I/O Interface	Ethernet	2xRJ45 w/ LEDs for 2.5GbE LAN
	USB Port	2x USB 3.0 Type A (Stacked Type); 2x USB 2.0 Type A (Stacked Type) 1x DP Port over USB Type C (DP Alt mode)
	COM Port	2
Internal I/O (onboard)	Button	1 for Power Button and 1 for Reset Button
	Audio	2x Speaker via Header
	USB Port	2x USB 2.0 via Header
	COM Port/UART	1x UART for debug
Expansion		1x M.2 M Key 2260 for NVMe SSD ; 1x M.2 E Key 2230 for Wi-Fi/BT module
Power Input		1x USB-C PD, 20V/3A
Dimension		204x 181x 48.3 mm (in temerpority)
Operating Temperature		-5°C ~ 50°C
Operating System		Linux, Windows
Certification		CE/FCC

